



SEQUENCE LISTING

<110> Laub, Ruth
Di Giambattista, Mario

<120> ANTIGENIC POLYPEPTIDE SEQUENCES OF FACTOR
VIII, FRAGMENTS AND/OR EPITOPIES OF THESE SEQUENCES

<130> VANMA48.001CP1

<140> US 09/853,080
<141> 2001-05-09

<150> US 08/765,837
<151> 1999-09-07

<150> PCT/BE95/00068
<151> 1995-07-14

<150> BE 9400666
<151> 1994-07-14

<160> 33

Alt
<170> FastSEQ for Windows Version 4.0

<210> 1
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<213> Homo sapiens

<220>
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Factor VIII

<400> 1
Arg Asp Ile Thr Arg Thr Leu Gln Ser Asp Gln Glu Glu Ile Asp
1 5 10 15
Tyr

<210> 2
<211> 16
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<213> Homo sapiens

<220>
<223> epitope Asp 1681 to Arg 1696 of A3 domain of
Factor VIII

<400> 2
Asp Glu Asp Glu Asn Gln Ser Pro Arg Ser Phe Gln Lys Lys Thr Arg
1 5 10 15

<210> 3
<211> 10
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<213> Homo sapiens

<220>
<223> epitope Thr 1739 to Tyr 1748 of A3 domain of Factor VIII

<400> 3
Thr Asp Gly Ser Phe Thr Gln Pro Leu Tyr
1 5 10

INS B3

<210> 4
<211> 9
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<213> Homo sapiens

<220>
<223> epitope Asn 1777 to Phe 1785 of A3 domain of Factor VIII

GAT

<400> 4
Asn Gln Ala Ser Arg Pro Tyr Ser Phe
1 5

<210> 5
<211> 22
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Glu 1794 to Tyr 1815 of A3 domain of Factor VIII

<400> 5
Glu Asp Gln Arg Gln Gly Ala Glu Pro Arg Lys Asn Phe Val Lys Pro
1 5 10 15
Asn Glu Thr Lys Thr Tyr
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<210> 6
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Met 1823 to Asp 1831 of A3 domain of Factor VIII

<400> 6
Met Ala Pro Thr Lys Asp Glu Phe Asp
1 5

(MS)
BB

<210> 7
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Glu 1885 to Phe 1891 of A3 domain of Factor VIII

<400> 7
Glu Thr Lys Ser Trp Tyr Phe
1 5

<210> 8
<211> 16
<212> PRT
<213> Homo sapiens

<220>
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<400> 8
Glu Thr Lys Ser Trp Phe Thr Glu Asn Met Glu Arg Asn Cys Arg Ala
1 5 10 15

<210> 9
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Asp 1909 to Arg 1917 of A3 domain of Factor VIII

<400> 9
Asp Pro Thr Phe Lys Glu Asn Tyr Arg
1 5

<210> 10
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Ser 2018 to His 2031 of A3 domain of Factor VIII

<400> 10
Ser Asn Lys Cys Gln Thr Pro Leu Gly Met Ala Ser Gly His
1 5 10

*INS
B3*

<210> 11
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<213> Homo sapiens

<220>
<223> epitope Ala 108 to Val 128 of A1 domain of Factor
VIII

<400> 11
Ala Ser Glu Gly Ala Glu Tyr Asp Asp Gln Thr Ser Gln Arg Glu Lys
1 5 10 15
Glu Asp Asp Lys Val
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A12

<210> 12
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<213> Homo sapiens

<220>
<223> epitope Glu 181 to Leu 192 of A1 domain of Factor
VIII

<400> 12
Glu Gly Ser Leu Ala Lys Glu Lys Thr Gln Thr Leu
1 5 10

<210> 13
<211> 25
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Asp 203 to Ala 227 of A1 domain of Factor
VIII

<400> 13
Asp Glu Gly Lys Ser Trp His Ser Glu Thr Lys Asn Ser Leu Met Gln
1 5 10 15
Asp Arg Asp Ala Ala Ser Ala Arg Ala
20 25

<210> 14
<211> 29
<212> PRT
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<220>
<223> epitope Asp 327 to Met 355 of A1 domain of Factor
VIII

<400> 14

Asp Ser Cys Pro Glu Glu Pro Gln Leu Arg Met Lys Asn Asn Glu Glu
1 5 10 15
Ala Glu Asp Tyr Asp Asp Asp Leu Thr Asp Ser Glu Met
20 25

<210> 15
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Asp 403 to Lys 425 of A2 domain of Factor
VIII

<400> 15
Asp Asp Arg Ser Tyr Lys Ser Gln Tyr Leu Asn Asn Gly Pro Gln Arg
1 5 10 15
Ile Gly Arg Lys Tyr Lys Lys
20

<210> 16
<211> 11
<212> PRT
<213> Homo sapiens

a 12
<220>
<223> epitope Val 517 to Arg 527 of A2 domain of Factor
VIII

<400> 16
Val Glu Asp Gly Pro Thr Lys Ser Asp Pro Arg
1 5 10

<210> 17
<211> 11
<212> PRT
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<220>
<223> epitope Tyr 555 to Gln 565 of A2 domain of Factor
VIII

<400> 17
Tyr Lys Glu Ser Val Asp Gly Arg Gly Asn Gln
1 5 10

<210> 18
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> epitope His 693 to Gly 701 of A2 domain of Factor

VIII

<400> 18
His Asn Ser Asp Phe Arg Asn Arg Gly
1 5

<210> 19
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Ser 710 to Asp 725 of A2 domain of Factor
VIII

<400> 19
Ser Cys Asp Lys Asn Thr Gly Asp Tyr Tyr Gly Asp Ser Tyr Glu Asp
1 5 10 15

<210> 20
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($\alpha 12$)
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<223> epitope Leu 730 to Ser 741 of A2 domain of Factor
VIII

<400> 20
Leu Leu Ser Lys Asn Asn Ala Ile Glu Pro Arg Ser
1 5 10

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<212> PRT
<213> Homo sapiens

<220>
<223> epitope Ser 817 to Ser 830 of A2 domain of Factor
VIII

<400> 21
Ser Asp Asp Pro Ser Gly Ala Ile Asp Ser Asn Asn Ser
1 5 10

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<212> PRT
<213> Homo sapiens

<220>
<223> epitope Ile 2081 to Ser 2095 of C domain of Factor
VIII

<400> 22
Ile His Gly Ile Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser
1 5 10 15

<210> 23
<211> 17
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Tyr 2105 to Gly 2121 of C domain of Factor
VIII

<400> 23
Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr Arg Gly Asn Ser Thr
1 5 10 15
Gly

<210> 24
<211> 10
<212> PRT
<213> Homo sapiens

a 12
<220>
<223> epitope Asn 2128 to Asn 2138 of C domain of Factor
VIII

<400> 24
Asn Val Asp Ser Ser Gly Ile Lys His Asn
1 5 10

<210> 25
<211> 12
<212> PRT
<213> Homo sapiens

<220>
<223> epitope His 2152 to Arg 2163 of C domain of Factor
VIII

<400> 25
His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg
1 5 10

<210> 26
<211> 17
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Ser 2181 to Asn 2198 of C domain of Factor

VIII

<400> 26

Ser Lys Ala Ile Ser Asp Ala Gln Ile Thr Ala Ser Ser Tyr Phe Thr
1 5 10 15

Asn

<210> 27

<211> 19

<212> PRT

<213> Homo sapiens

<220>

<223> epitope Ser 2204 to Gln 2222 of C domain of Factor
VIII

<400> 27

Ser Pro Ser Lys Ala Arg Leu His Leu Gln Gly Arg Ser Asn Ala Trp
1 5 10 15

Arg Pro Gln

α12

<210> 28

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<223> epitope Gln 2235 to Leu 2251 of C domain of Factor
VIII

<400> 28

Gln Lys Thr Met Lys Val Thr Gly Val Thr Thr Gln Gly Val Lys Ser
1 5 10 15

Leu

<210> 29

<211> 10

<212> PRT

<213> Homo sapiens

<220>

<223> epitope Gly 2242 to Leu 2251 of C domain of Factor
VIII

<400> 29

Gly Val Thr Thr Gln Gly Val Lys Ser Leu
1 5 10

<210> 30

<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> epitope Ile 2262 to Gln 2270 of C domain of Factor
VIII

<400> 30
Ile Ser Ser Ser Gln Asp Gly His Gln
1 5

<210> 31
<211> 17
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Leu 2273 to Ser 2289 of C domain of Factor
VIII

<400> 31
Leu Phe Phe Gln Asn Gly Lys Val Lys Val Phe Gln Gly Asn Gln Asp
1 5 10 15
Ser

<210> 32
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Pro 2292 to Tyr 2305 of C domain of Factor
VIII

<400> 32
Pro Val Val Asn Ser Leu Asp Pro Pro Leu Leu Thr Arg Tyr
1 5 10

<210> 33
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> epitope Glu 2322 to Tyr 2332 of C domain of Factor
VIII

<400> 33
Glu Val Leu Gly Cys Glu Ala Gln Asp Leu Tyr
1 5 10